

TECHNICAL DATASHEET

Edge Mount Waveguide Connector | WR08 | 90 GHz to 140 GHz

MADE IN GERMANY

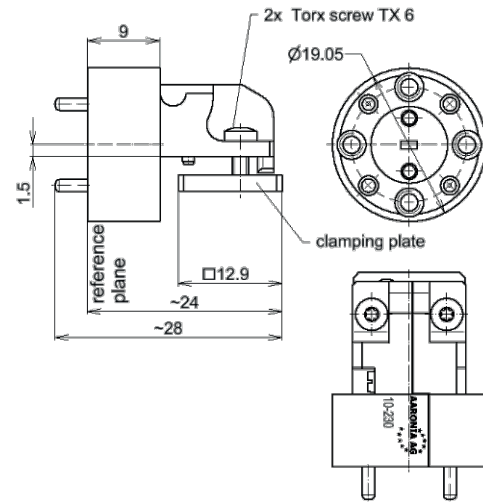
Edge Mount Waveguide Connector | WR08 | 90 GHz to 140 GHz SKU 508/004

Technical Specifications

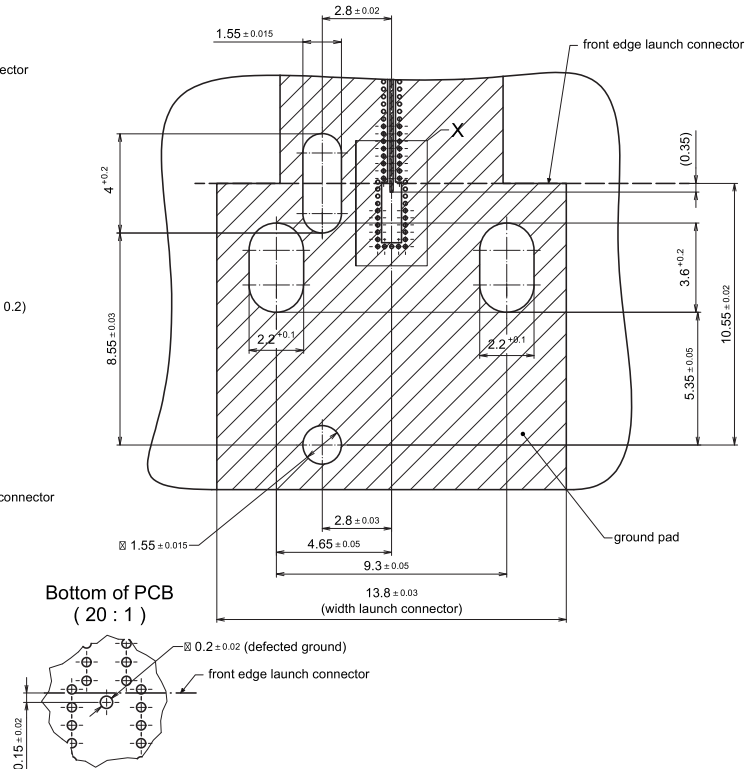
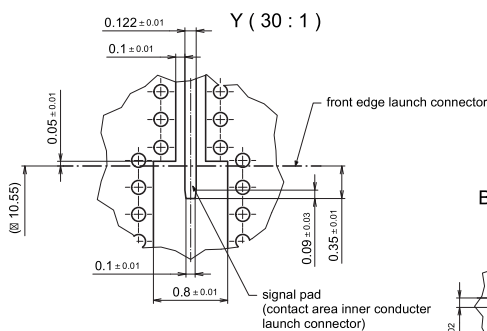
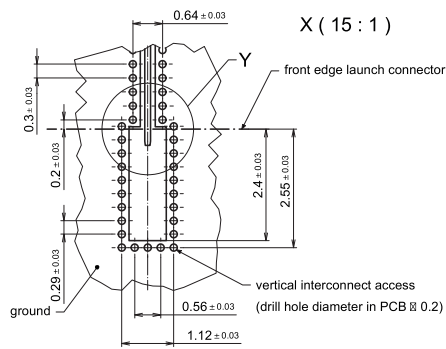
Edge Mount Waveguide Connector | WR08 | 90 GHz to 140 GHz

Type	▶ WR-08 / R 1200 (90 - 140GHz F-Band)
SKU	▶ 508/004
Radio Frequency Characteristics	
Frequency Range	▶ 50 to 75 GHz
Waveguide Interface Aperture	▶ R 1.2k per IEC 60153-2 (WR 8 per EIA RS-261, WM-2032 per IEEE Std. 1785.1)
Waveguide Interface Mechanics	▶ Precision split-block interface with anti-cocking rim compatible IEEE 1785.2a and IEC 60154-2 UFC type flanges
PCB Interface	▶ Transmission lines according to drawings below
Return Loss	▶ Typ. 15 dB
Characteristic Impedance	▶ 50 Ω
Mechanical Characteristics	
Inner Contact PCB Side Material/Coating	▶ CuBe age hardened / gold-plated
Dielectric Material	▶ PEI
Case Material/Coating	▶ Copper alloy / gold-plated
Other Metallic Parts/Coating	▶ Copper alloy / nickel-plated, stainless steel
Weight	▶ Approx. 35 g
Installation Type	▶ Solderless
PCB Thickness	▶ Max. 2.2 mm (expandable with longer screws)
Environmental Conditions	
Operating Temperature Range	▶ -40 to +85°C
Max. Relative Humidity	▶ 95% (non-condensing)

Technical Drawing



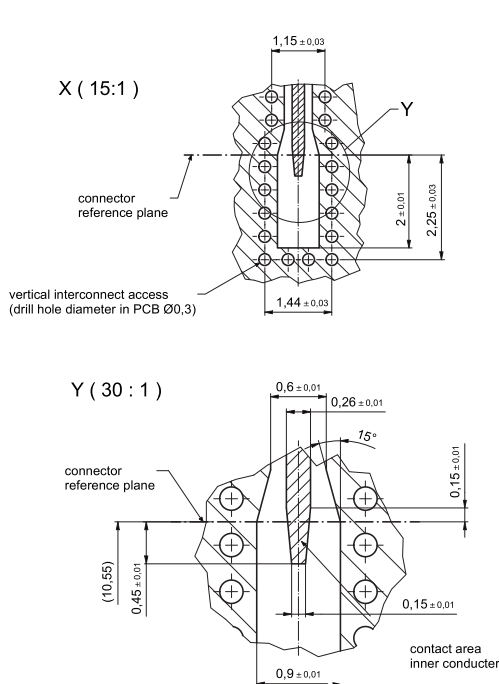
Edge Mount Waveguide Connector Footprints



Note:

This layout is optimized for high frequency laminates with following properties:

- dielectric constant 3.0 ± 5%
- thickness 63.5 µm
- 17µm electrodeposited copper foil on both sides.



Note:

This layout is optimized for high frequency laminates with following properties:

- dielectric constant 3.0 ± 5%
- thickness 127 µm
- 17µm electrodeposited copper foil on both sides.

